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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/785,080	02/15/2001	Stephen P.W. Draper	5543-00301/EBM	3076
75	90 06/16/2004		EXAMI	NER
ERIC B. MEYERTONS			YUAN, ALMARI ROMERO	
CONLEY, ROS P.O. BOX 398	SE & TAYON, P.C.		ART UNIT	PAPER NUMBER
AUSTIN, TX 78767-0398			2176	
			DATE MAILED: 06/16/2004	ω

Please find below and/or attached an Office communication concerning this application or proceeding.

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PTO-90C (Rev. 10/03)

	Application No.	Applicant(s)		
· .	09/785,080	DRAPER, STEPHEN P.W.		
Office Action Summary	Examiner	Art Unit		
	Almari Yuan	2176		
The MAILING DATE of this communic				
A SHORTENED STATUTORY PERIOD FO THE MAILING DATE OF THIS COMMUNIC - Extensions of time may be available under the provisions o after SIX (6) MONTHS from the mailing date of this commu - If the period for reply specified above is less than thirty (30) - If NO period for reply is specified above, the maximum state - Failure to reply within the set or extended period for reply w Any reply received by the Office later than three months aft earned patent term adjustment. See 37 CFR 1.704(b).	CATION. f 37 CFR 1.136(a). In no event, however, may a nication. days, a reply within the statutory minimum of thir utory period will apply and will expire SIX (6) MON ill, by statute, cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. 6 133)		
Status				
1) Responsive to communication(s) filed	on <u>08 August 2003</u> .			
2a) This action is FINAL . 2b) This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice	e under <i>Ex parte Quayle</i> , 1935 C.D	D. 11, 453 O.G. 213.		
Disposition of Claims				
4)⊠ Claim(s) <u>1-41</u> is/are pending in the ap	plication.			
4a) Of the above claim(s) is/are	•			
5) Claim(s) is/are allowed.				
6)⊠ Claim(s) <u>1-41</u> is/are rejected.				
7) Claim(s) is/are objected to.				
8) Claim(s) are subject to restricti	on and/or election requirement.			
Application Papers				
9)☐ The specification is objected to by the	Examiner.			
10)⊠ The drawing(s) filed on <u>2/15/01</u> is/are:	a)⊠ accepted or b)☐ objected to	b by the Examiner.		
Applicant may not request that any object	ion to the drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).		
Replacement drawing sheet(s) including to	he correction is required if the drawing	(s) is objected to. See 37 CFR 1.121(d).		
11)☐ The oath or declaration is objected to I	by the Examiner. Note the attached	d Office Action or form PTO-152.		
Priority under 35 U.S.C. § 119				
12)☐ Acknowledgment is made of a claim fo a)☐ All b)☐ Some * c)☐ None of:	or foreign priority under 35 U.S.C. §	§ 119(a)-(d) or (f).		
 Certified copies of the priority description 	ocuments have been received.			
	ocuments have been received in A	· · · · · · · · · · · · · · · · · · ·		
3. Copies of the certified copies of		received in this National Stage		
application from the International	* **			
* See the attached detailed Office action	for a list of the certified copies not	received.		
Attachment(s)				
1) X Notice of References Cited (PTO-892)	4) Interview S	Summary (PTO-413)		
 2) Notice of Draftsperson's Patent Drawing Review (PTC 3) Information Disclosure Statement(s) (PTO-1449 or P Paper No(s)/Mail Date 4.5. 	O-948) Paper No(s	s)/Mail Date nformal Patent Application (PTO-152)		
S. Patent and Trademark Office PTOL-326 (Rev. 1-04)	Office Action Summary	Part of Paper No./Mail Date 6		

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DETAILED ACTION

- 1. This action is responsive to communications: Application filed on 2/15/01 and Information Disclosure Statements filed on 8/04/03 and 8/08/03.
- 2. Claims 1-41 are pending in the case. Claims 1, 14 and 28 are independent claims

Information Disclosure Statement

3. The references listed in the Information Disclosure Statements filed on 8/04/03 and 8/08/03 have been considered.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1-41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bittinger et al. (USPN 5,859,971 filed 02/1996) in view of Balcha et al. (USPN 6,233,589 B1 filed on 07/1998).

Regarding independent claims 1, 14, and 28 and (dependent claims 2, 12-13, 15, 26-27, 29, and 40-41),

Bittinger discloses:

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A method of reducing a size of data difference representations, the method comprising:

Bittinger discloses "identifying an original version of an input data stream in an original form and identifying an updated version of the input data stream in the original form", on col. 3, lines 28-67 and col. 4, lines 39-67 teaches determining if the received data stream is identical to the cache entry and determining if the received data stream is different from the cache entry to create a plurality of difference data sets);

Bittinger discloses "dividing the original form of the original version of the input data stream into one or more separate original version output streams through the use of a preprocessor form and dividing the original form of the updated version of the input data stream into one or more separate updated version output streams through the use of a pre-processor form", on col. 27, lines 44-64 teaches the data stream may be demultiplexed to create a plurality of HTTP data stream); and

produce data difference representations (Bittinger on col. 3, lines 54-58 teaches the difference data is sent to the second d computer over the external communication link and the difference data transmitted over the external communication link sent by the client computer is acquired from the external communication link and on col. 4, lines 39-46 teaches archival difference data).

However, Bittinger does not explicitly disclose "differencing each of the one or more separate updated version output data streams with a corresponding original version output data stream".

Balcha discloses "differencing each of the one or more separate updated version output data streams with a corresponding original version output data stream", on col. 8, line 64 – col. 9,

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lines 51 teaches differencing mechanism between unmodified stream (original) and modified stream (updated).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have modified Balcha into Bittinger to provide a way to difference between an unmodified stream and a modified stream, as taught by Balcha, incorporated into the differencing system of Bittinger, in order to prevent to copy the entire base file and to reduce network traffic.

Regarding dependent claims 3, 17, and 30, Bittinger discloses:

reconstructing the one or more separate updated version output data streams from the data difference representations and the original version output data streams (Bittinger on col. 3, lines 48-67 teaches reconstructed data stream corresponding to the intercepted response from data difference between the intercepted response and server base form); and

combining the one or more separate updated version output data streams into the original form of the updated version of the input data stream through the user of a post-processor (Bittinger on col. 4, lines 1-15 teaches combining the sever base form received over the link with the difference data received over the link to create a data stream).

Regarding dependent claims 4, 18, and 31, Bittinger discloses:

wherein the original form of the original version of the input data stream is empty (Bittinger on col. 10, lines 55-59 teaches empties from the temporary storage the HTTP data stream received by the web server).

Regarding dependent claims 5, 19, and 32, Balcha discloses:

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decompression algorithms (Balcha on col. 2, line 28 teaches compression/decompression algorithms).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have modified Balcha into Bittinger to provide a way to difference between an unmodified stream and a modified stream, as taught by Balcha, incorporated into the differencing system of Bittinger, in order to prevent to copy the entire base file and to reduce network traffic.

Regarding dependent claims 6, 20, and 33, Bittinger discloses:

separate volatile components of the input data stream from less volatile components (Bittinger on col. 10, lines 39-59 teaches the received data stream is temporarily stored to interrogates components of the data stream).

Regarding dependent claims 7, 21, and 34, Bittinger discloses:

the input data stream is executable code (Bittinger see Abstract teaches the data stream is executed by the first application).

Regarding dependent claims 8, 22, and 35, Bittinger discloses:

branch targets (Bittinger on 10, lines 39-59 teaches interrogating the received HTTP data stream).

Regarding dependent claims 9, 23, and 36, Balcha discloses:

data address (Balcha on col. 9, lines 15-51 teaches base address of the stream).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have modified Balcha into Bittinger to provide a way to difference between an unmodified stream and a modified stream, as taught by Balcha, incorporated into the

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differencing system of Bittinger, in order to prevent to copy the entire base file and to reduce network traffic.

Regarding dependent claims 10, 24, and 37, Balcha discloses:

instruction code (Balcha on col. 9, lines 40-45 teaches byte codes).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have modified Balcha into Bittinger to provide a way to difference between an unmodified stream and a modified stream, as taught by Balcha, incorporated into the differencing system of Bittinger, in order to prevent to copy the entire base file and to reduce network traffic.

Regarding dependent claims 11, 25, and 38, Balcha discloses:

immediate data (Balcha on col. 9, lines 5-11 shows data within two different streams).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have modified Balcha into Bittinger to provide a way to difference between an unmodified stream and a modified stream, as taught by Balcha, incorporated into the differencing system of Bittinger, in order to prevent to copy the entire base file and to reduce network traffic.

Regarding dependent claim 16, Bittinger does disclose pre-processor is located in the first computer system and post-processor is located in the second computer system (See Figure 2). Application/Control Number: 09/785,080

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Conclusion

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6. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

USPN 6,003,087 - Housel, III et al. - filed on 10/1997

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Almari Yuan whose telephone number is 703-305-5945. The

examiner can normally be reached on Mondays - Fridays (8:30am - 5:00pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Joseph Feild, can be reached on 703-305-9792. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AY

June 12, 2004

SANJIV SHAH

PRIMARY EXAMINER